

1 In the claims:

2 Cancel claims 1-9 and 20-36.

3 Claims 14-16 are withdrawn.

4

1 Version with Markings to Show Changes Made

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3 1 - 9 (Cancelled)

4
5 10 (Original) A tunable optical filter comprising: an
6 expander having an expander extent, a coefficient of
7 expansion, a first attachment, and a second attachment,
8 said attachments separated by an attachment extent;
9 an optical fiber having a grating, said grating having
10 a grating extent;
11 said expander positioned around said optical fiber,
12 and said optical fiber grating extent is included in said
13 extent of said attachment extents;
14 said expander bonded to said optical fiber at said
15 first attachment and said second attachment;
16 said expander responsive to a control.

17
18 11(Original) The tunable filter of claim 10 where said
19 control is a varying magnetic field.

20
21 12(Original) The tunable filter of claim 11 where said
22 tunable filter includes a magnetic field generator
23 producing a magnetic field which is coupled to said
24 expander.

1

2 13(Original) The tunable filter of claim 12 where said
3 magnetic field generator comprises an coil wound about said
4 expander.

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6 14-16 (Withdrawn)

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8 17(Original) The tunable filter of claim 10 where said
9 filter is sensing a magnetic field, and said control
10 comprises the magnetic field to be sensed.

11

12 18(Original) The tunable filter of claim 10 where said
13 expander is made from $Tb_{0.3} Dy_{0.7} Fe_{1.9}$.

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15 19(Original) The tunable filter of claim 10 where said
16 expander is made from zinc.

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18 20-36 (Cancelled)

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